0/050,533

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)	
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Michael J. GRAZIANO, et al.) Group A	Art Unit: 2121
) Examin	er: Unknown
Application No.: 10/050,533)	
Filed: January 18, 2002)	RECEIVED
For: METHOD AND SYSTEM F A BASE-2 LOGARITHM O		JUN 0 5 2002 Technology Center 2100
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INFORMATION DISCLOSURE STATEMENT

The Director of the United States Patents and Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully submit the following documents for the Examiner's consideration. A copy of Form PTO-1449 and copies of each of the listed documents are enclosed for the Examiner's convenience.

Applicants respectfully request that the Examiner considers the enclosed references and that the Examiner indicates that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per MPEP 609.

This Information Disclosure Statement is believed to be submitted before the mailing of a first Office Action. Accordingly, no fees are due. However, if any fees are

incurred upon the filing of this Information Disclosure Statement, the Commissioner is hereby authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted, HUNTON & WILLIAMS

Date: <u>May 30</u>, 2002

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Substitute for form 1449A/PTO

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Complete if Known Application Number 10/050,533 INFORMATION DISCLOSURE January 18, 2002 Filing Date January 18, 2002

Michael J. GRAZIANO, et PECEIVED STATEMENT BY APPLICANT First Named Inventor

Group Art Unit **Examiner Name** Unassigned

Sheet of 1 Attorney Docket Number 56162.000352

				U.S. PATENT DOCU	MENTS		
_		U.S. Paten	t Document	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevar Passages or Relevant Figures Appear	
	Cite No.	Number	Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY		
	U1	5,363,321		Dao Trong et al.	11/08/94		
	U2	5,524,089		Takano	06/04/96		
	U3	5,570,310		Smith	10/29/96		
	U4	5,600,581		Dworkin et al.	02/04/97		
	U5	5,604,691		Dworkin et al.	02/18/97		
	U6	5,642,305		Pan et al.	06/24/97		
	U7	5,703,801		Pan et al.	12/30/97		
	U8	5,909,384		Tal et al.	06/01/99		
	U9	5,940,312		Hansen	08/17/99		
	U10	5,941,939		Pan et al.	08/24/99		
	1	1		PATENT LITERATURE			
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					Τ²
	P1	Haykin, Simon, <i>Communication Systems 4th Edition</i> , Wiley, 2001, page 436					
	P2	Brighar	n, E. Oran, <i>The</i>	Fast Fourier Transform and	its Applications, Prentice	Hall, 1988, pgs 191-193	·
	РЗ	Embree,	Embree, Paul M. and Kimbel, Bruce, <i>C Language Algorithms for Digital Signal Processing</i> , Prentice Hall, 1991, pgs 255-256 and 266 and 267				
	P4		Haykin, Simon, <i>Adaptive Filter Theory 3rd Edition</i> , Prentice Hall, 1996, pgs 393-404				
	P5	Proa	Proakis, John G., Manolakis, Dimitris G., "Digital Signal Processing: Principals, Algorithms and Applications 3" Edition, Prentice Hall, 1996, pgs 23-28				
	P6	ITU Sta	ITU Standard G.991.2, "Single Pair High Speed Digital Subscriber Line (SHDSL) Transceivers", April 2001, pgs 1-191, Irvine, California				
	P7	ITU Sta	ITU Standard G.994.1, "Handshake Procedures for Digital Subscriber Line (DSL) Transceivers", June 1999, pgs 1-46, Geneva				
		ANSI Standard HDSL2, "High Bit Rate Digital Subscriber Line2 nd Generation (HDSL2)", February 21-25, 2000, pgs 1-94, Maui, HI					

Examiner	·	Date	
Signature		Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.